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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,814	02/27/2002	Joseph Francis Mann	01AB162	6548
7590	01/14/2005		EXAMINER	
Ms. Susan M. Donahue Rockwell Automation, 704-P 1202 South Second Street Milwaukee, WI 53204			PERVEEN, REHANA	
			ART UNIT	PAPER NUMBER
			2116	

DATE MAILED: 01/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/083,814	MANN ET AL.
Examiner	Art Unit	
Rehana Perveen	2116	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 February 2002.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-21 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-4,6,7,9-15,17 and 19-21 is/are rejected.

7) Claim(s) 5,8,16 and 18 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 27 February 2002 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 12, and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Applicant's Admission of Prior Art (AAPA).

As to claims 1 and 12, AAPA teaches an integrated processor system having a processing unit for performing arithmetic and logical operations (AAPA, Page 2, 0007), a non-volatile boot memory holding a bootstrap program (AAPA, Page 2, 0007), at least one internal system storage structure selected from the group consisting of caches, buffers, and registers (AAPA, Page 3, 0008, general memory), and the processing unit executing at least a portion of the bootstrap program using the internal system storage structure for temporary storage without access to external memory (AAPA, Page 3, 0007 & 0008).

As to claims 2 and 13, AAPA teaches the system further including interface circuits for communicating electrical signals with non-memory external devices (AAPA, Page 2, 0005).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 4, 6, 7, 9-11, 14, 15, 17, and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admission of Prior Art (AAPA), in view of Egbert et al, Patent No. 6,407,960.

As to claims 3 and 14, AAPA teaches a memory interface for communicating with the external memory (AAPA Page 2, 0004 & 0005). However, AAPA does not expressly teach the processing unit executes at least a portion of the bootstrap program to provide for acquisition of external memory setup data required for the memory interface to initiate communication with external memory.

Egbert et al teach a processing unit executes at least a portion of a bootstrap program to provide for acquisition of external memory setup data required for a memory interface to initiate communication with an external memory (col. 2 lines 1-34).

It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of AAPA and Egbert et al because both are commonly directed to system initialization environment, and Egbert et al's acquisition of external memory setup data during initialization, when incorporated into teachings of the AAPA, would have enabled increased flexibility by allowing the processing unit to interact with a number of different external memory types (Egbert et al, col. 1 lines 8-62).

As to claims 4 and 15, AAPA teaches the processing unit includes a network interface (AAPA, Page 2, 0005). Egbert et al teach acquisition of the external memory setup data is done through a network connection (col. 1 lines 8-16).

As to claim 6, AAPA teaches the internal non-volatile memory is a flash memory (AAPA, Page 2, 0004). Egbert et al teach the external non-volatile memory is an EEPROM (col. 2 lines 1-6). Official Notice is taken that EEPROMs and flash memories are different types of non-volatile memories and may interchangeably be used in the art due to the nature of their similarities in function.

As to claims 7 and 17, Egbert et al teach the processing unit teaches an address translation table mapping processing unit addresses to addresses of the external memory and make a temporary address translation table in a buffer memory so as to make the cache memory available for temporary storage (col. 2 lines 1-34).

As to claims 9 and 19, Egbert et al teach processing unit stores the memory setup data in the memory interface and loads additional programs for execution into external memory (col. 2, lines 19-34).

As to claims 10 and 20, Egbert et al teach processing unit stores the memory setup data in the memory interface and executes a program contained in external memory (col. 2 lines 35-46).

As to claims 11 and 21, the AAPA and Egbert et al teach memory set-up data but does not specify what type of memory set-up data. The examiner takes Official Notice that memory type, memory speed, memory size, memory parity, or memory timing are well-known types of memory set-up data. Accordingly, it would have been obvious for one of ordinary skill in the art at the time of the invention to use any of these listed types of memory set-up data disclosed by Egbert et al.

Allowable Subject Matter

Claims 5, 8, 16, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rehana Perveen whose telephone number is 571-272-3676. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on 571-272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Technology Center 2100